LOGGE S. M		ndrich	BEGIN DATE 1-3-08	COMPLETION DATE 1-3-08	BOREHOLE N21206			,		_					1)		HOLE ID	R-A1	-P7-I	— D			
DRILLIN							BOREHOLE LOCATION (Offset, Station, Line)  Offset 173ft L Sta 47+3 SB Alignment											RW18-A1-PZ-D SURFACE ELEVATION 10.350 ft (NAVD88)					
DRILLIN	DRILLING METHOD DE							DRILL RIG											BOREHOLE DIAMETER				
	SAMPLER TYPE(S) AND SIZE(S) (ID) SPT							Failing 1500 PT HAMMER TYPE												5 in. (soil); 4 in. (rock) HAMMER EFFICIENCY, ERI			
MC (	MC (2.4"), SPT (1.4"), Grab, Shelby (2.87")							Automatic, 140 lbs., 30-inch drop  GROUNDWATER DURING DRILLING AFTER DRILLING (DATE)															
		BACKF andpip	GROUNDW READINGS		≣R	DURI	NG E	RILL	ING	AF	TER	DRILLIN	IG (DA		OTAL DE 40.4 ft	PTH O	= BORING	}					
(#)					·	o	ē	_	Ħ				Ħ	۲	٦								
NOL	Œ	,				Locat	Numb	per 6 In	er Foc	y (%)		(%)	Weig	Strength	Metho								
ELEVATION (ft)	DEРТН (ft)	Material Graphics				Sample Location	Sample Number	Blows pe	Blows per Foot	Recovery (	RQD (%)	isture ntent	Dry Unit Weight (pcf)	Shear St (tsf)	Drilling Method								
Ш	_0 <u>+</u>	G M G a	Poorly graded SAND w	Description  vith SILT (SP-SM), dark bro	own dn/	Sal	Sal	Blo	Blo	Re	RG	οÑ	<u> </u>	She (tsf		5	Re	emarks		<del> </del>			
	1			GRAVEL and clasts of stro	omgly	₩:	S1								$ \langle    $								
8.35	2			L), soft, dark gray, wet, pie	eces of	$\  \cdot \ $									{	PID= 2	2.1 ppm			E			
0.55	E		decayed vegetation, sli BAY MUD]	ight organic odor detected	. [SANDY										Y								
	3		•												Y								
6.35	4																						
	5					Ш	U2		100	100					$ \rangle$					E			
4.35	6								psi						}								
	7		Fat CLAY (CH), soft, dark brown decayed ve	ark gray, wet, with large an	mount of																		
2.35	8		CLAY, strong organic of	odor detected. [BAY MUD	)]	╀								TV = 0.21									
	9		CLAYEY SAND (SC) in	n cuttings. [MARINE SANI	D]									0.21	200								
	9																						
0.35	10														000								
	11		Fat CLAY (CH) layer in	cuttings. [BAY MUD]																			
-1.65	12																						
00/6/1	13			gray, wet, SAND is fine to CLAY. [MARINE SAND]	coarse, with	T	U3		100 psi	81					MMM								
-3.65	14	-/-/		SP), gray, wet, fine to med	dium, trace	1			400 psi														
	15		fines.			H			ρο.						200								
Ž	E					H									2222								
-5.65 Y	16																			F			
5	17																			E			
-7.65	18		Grades with lenses of 0	CLAY with small shell fragi	ments up to	M	S4	6 8	18	78					200					E			
	19		1/16" diameter.	vith CLAY (SP-SC), loose,		H.	S5	10	9	67													
-9.65	20			um, with occasional decay		М,	35	3 4	9	67					300								
5			- ogotatori.			$\mathbb{H}$	+	5												E			
7-1-1	21														))))								
-11.65	22						-		4-	465													
	23	I V		vith CLAY (SP-SC), loose,		Ŋ	S6	3 7	16	100					<u> </u>					E			
-13.65	24		\1/2" diameter, and occ	ith pockets of iron-oxide st asional fine GRAVEL. [C0			S7	9	49	67													
	25	<b> </b>	\SAND]			M.									2								
			(continued)		·			EPOR										HOLE	ID				
	\_		•	ment of Transportat n of Engineering Se			В	ORII	٧Ģ			RD	ROU	ITE	POS	STMILE		RW EA	18-A1-F	Z-D'			
				chnical Services	N VICES		4	4 S.F. 101 8.3/9.4  PROJECT OR BRIDGE NAME									1637	'01					
-3.65 -5.65 -7.65 -11.65 -13.65 -13.65								Doyle Drive Replacement Project								T=	-	01:===					
5				BRIDGE NUMBER PREPARED BY T. Carroll								DATE SHEET 11-3-08 1 of 2											

ELEVATION (ft)	я ОЕРТН (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Hade O Buisse O Remarks
-15.65	F		Poorly graded SAND (SP), loose, yellowish brown, moist, fine to medium, trace fines, with iron-oxide staining up to 1/4" diameter. Grades dense.			14 20 29							MMMM	
-17.65			Grades very dense, dark yellowish brown.	$\Lambda$	58 59	20 50/6"	50/6" 65						DOOD	
-19.65						24 41							MANNA	
-21.65		]		Vs	10	30	50/6"	100						
-23.65	33 34 35		33.5' - 35.0', heavily iron-oxidized zone, grades moist, SAND grades fine.	$\Lambda_{-}$		50/6" 10 30 37	67						000000000000000000000000000000000000000	
-25.65	E													
-27.65		]	Grades with increased fines content.  Grades trace fines.	S	12	10 19 36	55	100					00000	
-29.65			Borehole terminated at a depth of 40.4 feet on 1/3/2008.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	13	15 33 50/5"	83/ 11"	100					0000	
-31.65	42		See Boring Record Legend for soil classification chart and key to test data and sampler type.											
-33.65														
-35.65														
-37.65	48													
-39.65														
-41.65														
-43.65														
			Department of Transportation Division of Engineering Services Geotechnical Services		Bi 4 PF D	ROJEC	NG I	OUN S.F. R BR re F	ITY IDGE Repl	NAM acen	nent	TE : Proje	8.	HOLE ID RW18-A1-PZ- DSTMILE EA 163701  DATE SHEET
		4/-	<del></del> -		N	/A				T. C	Carro	oll .		11-3-08 2 of 2